SECRET PRIORITY

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GROUP ONE

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EOM

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ENTIRE MISSION WAS GOOD.

SECRET

SUBJECT: EVALUATION OF KA-52 CAMERA SYSTEM IMAGERY IMAGE QUALITY: MOST IMAGERY IS GOOD AND RETAINS EDGE SHARPNESS UP TO 25% MAGNIFICATION; HOVEVER, CROSS-TRACK IMAGE SMEAR IS PRESENT ON EACH FRAME. THIS DEGRADATION IS MOST EVIDENT AT THE TAKE-UP END OF THE FRAME. AND DIMINISHES UNTIL UNDETECTABLE AT CENTER OF SCAN. THE CAUSE OF THIS ANOMALY ACOULD NOT BE DETERMINED. PHOTOGRAPHY WAS ACQUIRED AT VARIOUS ALTITUDES THROUGHOUT THE FLIGHT. EMPIRICAL ESTIMATES OF GROUND RESOLUTION WERE OBTAINED AT THE LOWEST AND HIGHEST ALTITUDES. IMAGERY OBTAINED AT THE LOWEST ALTITUDE YIELDED GROUND RESOLUTION (BAR PLUS SPACE). IN ADDITION, THE IMAGERY ACQUIRED AT THE LOWER ALTITUDES WAS SHARPER. EXPOSURE FOR THE

